

THE EMBODIMENTS OF THE INVENTION IN WHICH AN EXCLUSIVE PROPERTY OR PRIVILEGE IS CLAIMED ARE DEFINED AS FOLLOWS:

1. An apparatus for controlling a system which includes a fluid conduit network
5 and at least two motors each drivingly engaged with different fluid movement devices, the apparatus comprising:
 - a) means for providing a speed signal representative of the speed of each motor;
 - b) means for providing a control signal in response to the speed of each 10 motor;
 - c) means for controlling the speed of each motor in response to the control signal; andwherein each motor speed is controlled for balancing the rate of fluid movement at an input point and an exit point of the system.
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2. The apparatus of claim 1 wherein the means for providing a speed signal is a speed sensor.
3. The apparatus of claim 1 wherein the means for providing a control signal is a 20 microprocessor.
4. The apparatus of claim 1 wherein the means for controlling the speed of the each motor is a variable speed motor controller.
- 25 5. The apparatus of claim 1 wherein inputs means enable to increase or decrease the speed of the motors.
6. The apparatus of claim wherein the inputs means are encompassed with the means for controlling the speed.
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7. The apparatus of claim 5 wherein the inputs means are switches.

8. A system for balancing the rate of fluid movement, wherein the system comprises:

- a) at least two motors, each in driving relationship with a respective fluid movement device;
- 5 b) means for providing speed signals representative of the speed of each motor;
- c) a microprocessor, responsive to the speed signal, for generating control signals representative of a set of new speed signals; and
- d) variable speed motor controls for controlling the motor speeds in response to the control signals.

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9. A method for controlling a system which includes a fluid conduit network and at least two motors each drivingly engaged with different fluid movement devices, the method comprising the steps of:

- 15 a) sensing the speed signal representative of the speed of each motor in the system;
- b) generating, by the use of a microprocessor, control signals representing new desired speeds for each motor; and
- c) transmitting a command to each motor in response to the control signals, the command adjusting the motor speeds thereby balancing the rate of fluid movement at an input point and an exit point of the system.

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